

Comparisons of Job Characteristics

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Compare Knowledge
 Compare Skills
 Compare Abilities
 Compare Detailed Work Activities
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 71

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	13.0	15.6	> Current knowledge level is likely sufficient
Public Safety and Security	6.9	11.1	6.6	<< Extensive education and/or training may be required
Transportation	4.6	8.0	1.6	<< Extensive education and/or training may be required
Design	5.2	7.4	7.8	0 Current knowledge level may be sufficient
Physics	4.3	7.0	6.6	0 Current knowledge level may be sufficient
Telecommunications	3.9	5.8	3.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	9.6	13.9	>> Skill level is likely more than sufficient
Equipment Maintenance	3.5	8.4	10.8	> Skill level is likely sufficient
Operation and Control	5.4	8.3	10.5	> Skill level is likely sufficient
Quality Control Analysis	5.9	8.3	12.9	>> Skill level is likely more than sufficient
Repairing	3.4	8.1	12.3	>> Skill level is likely more than sufficient
Troubleshooting	4.5	7.9	12.8	>> Skill level is likely more than sufficient
Equipment Selection	3.3	6.2	9.2	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 75				
Focus Occupation: Electro-Mechanical Technicians (17-3024) Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	10.8	11.5	0	Current ability level may be sufficient
Near Vision	11.1	10.6	13.5	>>	Current ability level is likely more than sufficient
Oral Expression	12.4	10.6	11.2	0	Current ability level may be sufficient
Extent Flexibility	4.8	10.1	1.5	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	9.8	10.8	>	Current ability level is likely sufficient
Arm-Hand Steadiness	6.8	9.7	12.0	>	Current ability level is likely sufficient
Information Ordering	9.9	9.6	11.6	>	Current ability level is likely sufficient
Multilimb Coordination	6.0	9.4	8.9	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.2	11.6	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	6.8	1.3	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	5.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 79
Focus Occupation: Electro-Mechanical Technicians (17-3024) Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)	
Work Activities	Exclusivity of Activity
Analyze test data	64
Fabricate, assemble, or disassemble manufactured products by hand	11
Install/connect electrical equipment to power circuit	57
Read blueprints	10
Read schematics	34
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Set up and operate variety of machine tools	62
Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6

Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use precision measuring devices in mechanical repair work	61

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Liquid and gas flow measuring and observing instruments	15
Machine tools	7
Measuring and layout tools	3
Power tools	2
Pressure measuring and control instruments	10
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.